PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference			
80601F	FOR FURTHER ACTION See Form PCT/IPEA/416		
International application No.	International filing date (day/month/year)	Priority date (day/month/year)	
PCT/F12005/000038	19-01-2005	19-01-2004	
International Patent Classification (IPC) o	r national classification and IPC		
See Supplemental Box			
Applicant			
ELEKTRA NEUROMAG OY e	1		
ELEKIRA NEUROMAG UI E	t al		
This report is the international pre Authority under Article 35 and tre	liminary examination report, established by ansmitted to the applicant according to Articles	this International Preliminary Examining le 36.	
2. This REPORT consists of a total of	of 8 sheets, including this cov	ver sheet.	
3. This report is also accompanied by	ANNEXES, comprising:		
- (sem to the applicant	and to the International Bureau) a total of		
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).			
sheets which s	supersede earlier sheets, but which this Author	ority considers contain an amendment that goes	
beyond the dis	sclosure in the international application as fil	ed, as indicated in item 4 of Box No. I and the	
b (sent to the Internation	nal Bureau only) a total of (indicate type and		
form only, as indicate	, containing a sequence listin	g and/or tables related thereto, in electronic	
form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).			
4. This report contains indications relating to the following items:			
Box No. I Basis of			
Box No. II Priority			
Box No. III Non-esta	ablishment of opinion with regard to novelty	, inventive step and industrial applicability	
Box No. IV Lack of	unity of invention		
	documents cited	1	
Box No. VII Certain o	defects in the international application	_	
<u> </u>	observations on the international application		
ZN			
Date of submission of the demand	Date of completion	n of this report	
17-11-2005	26-01-200	6	
Name and mailing address of the IPEA/SE	Authorized officer		
Patent- och registreringsverket Box 5055			
Sture Elnäs/MN			
Facsimile No. +46 8 667 72 88		6 8 782 25 00	

Form PCT/IPEA/409 (cover sheet) (April 2005)

International application No.

PCT/FI2005/000038

Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Cover sheet

INTERNATIONAL PATENT CLASSIFICATION (IPC):

A61B 5/04 (2006.01) **G01R** 33/02 (2006.01) G01R 19/00 (2006.01)

Form PCT/IPEA/409 (Supplemental Box) (April 2005)

International application No.
PCT/FI2005/000038

Вох	No. I	Basis of the report		
1.	With r	egard to the language, this report is based on:		
	\boxtimes	the international application in the language in which it wa	as filed	
		a translation of the international application into		,
		which is the language of a translation furnished for the pur	rposes of:	
		international search (Rules 12.3(a) and 23.1(b))	10.44.))	
		publication of the international application (Rule international preliminary examination (Rules 55.2		
		international preliminary examination (Rules 55.2	2(a) and/or 33.3(a))	
2.	furnisi	regard to the elements of the international application, ned to the receiving Office in response to an invitation under the not annexed to this report):		
		the international application as originally filed/furnished		
	\boxtimes	the description:		
		pages <u>1-8</u>		as originally filed/furnished
		pages* recei		
			ved by this Authority on	
	\boxtimes	the claims:		
		pages*	as amounded (to eath a	as originally filed/furnished with any statement) under Article 19
		• • • • • • • • • • • • • • • • • • • •		17-11-2005
			•	
	\boxtimes	the drawings:		
		pages 1		as originally filed/furnished
		pages* recei	ved by this Authority on	. •
		pages* recei		
	Ш	a sequence listing and/or any related table(s) - see Supple	emental Box Relating to S	Sequence Listing.
3.		The amendments have resulted in the cancellation of:		
		the description, pages		·
		the claims, Nos.		
		the drawings, sheets/figs		
		the sequence listing (specify):		· · · · · · · · · · · · · · · · · · ·
	•	any table(s) related to the sequence listing (spec	cify):	
4.		This report has been established as if (some of) the am made, since they have been considered to go beyond the 70.2(c)).	endments annexed to this disclosure as filed, as in	is report and listed below had not been adicated in the Supplemental Box (Rule
		the description, pages		
		the claims, Nos.		
		the drawings, sheets/figs		
		the sequence listing (specify):		
		any table(s) related to the sequence listing (spec		
*	If item	4 applies, some or all of those sheets may be marked "sup	erseded."	

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Box No. II	Priority
	report has been established as if no priority had been claimed due to the failure to furnish within the prescribed time the requested:
	copy of the earlier application whose priority has been claimed (Rule 66.7(a)).
	translation of the earlier application whose priority has been claimed (Rule 66.7(b)).
inva	report has been established as if no priority had been claimed due to the fact that the priority claim has been found lid (Rule 64.1). Thus for the purposes of this report, the international filing date indicated above is considered to be the vant date.
3. Additional	observations, if necessary:
Taulu 2 Aug	riority is considered valid. Therefore, document "Samu et al, International Congress Series 1270 (2004) 32-37, sust 2004, Clinical applications of the signal space ation method", is of no relevance for this report.

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Box No.	III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
	tions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially e have not been examined in respect of:
	the entire international application
\boxtimes	claims Nos. 1-10 (in part)
becau	se.
	the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):
	the description, claims or drawings (indicate particular elements below) or said claims Nos are so unclear that no meaningful opinion could be formed (specify):
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed (specify):
\boxtimes	no international search report has been established for said claims Nos. 1-10 (in part)
	a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:
	furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Preliminary Examining Authority in a form and manner acceptable to it.
·	furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Preliminary Examining Authority in a form and manner acceptable to it.
	pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13ter.1(a) or (b) and 13ter.2.
	a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Preliminary Examining Authority in a form and manner acceptable to it.
	the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in the Annex C-bis of the Administrative Instructions.
	See Supplemental Box for further details.

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Box No. V	Reasoned statement u- citations and explanat	nder Article 3 ions supporti	35(2) with regard to novelty, inventive s ng such statement	tep or industrial applicability;
1. Statement	:			
Nove	lty (N)	Claims	1-10	YES
		Claims		NO
Inven	tive step (IS)	Claims	1-10	YES
m.v.		Claims		NO NO
Indus	trial applicability (IA)	Claims	1-10	YES
Illuus	anar approaching (in t)	Claims	<u> </u>	NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1:US5408178

D2:US2002/0151779

D3:US4793355 D4:EP0483698

D1 discloses a method for measurement of magnetic fields in an object. The document teaches that the orientation of the object is varied (column 2, column 11, lines 63-65). The magnetic field is induced by external coils. Methods of detection and the location of magnetic fields from a current source in a living brain are disclosed.

D2 describes a method of measurement of magnetic fields from a brain: To improve the sensitivity a procedure of voluntary eye movements is described (paragraph [0046]).

D3 discloses the measurement and the location of magnetic fields produced by a body. From the movement of the body, the location of the field is determined in the sense of the body coordinates.

D4 discloses a method to locate the currents in a brain independent of the position and orientation of the magnetometers with respect to the head (column 1, lines 38-45).

The invention according to the amended claims is generally stated and covers all kinds of signals from a movable object, while support in the meaning of PCT Article 6 only is given for biomagnetic signals.

. . . / . . .

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box $\,V\,$

The document D1 is regarded as being the closest prior art to the subject-matter of claim 1.

The subject-matter of claim 1 differs from D1 in that the object is movable intentionally and unlimitedly. Furthermore, the relative movement is measured using the measuring instrument.

The subject-matter of claim 1 is therefore novel (Article 33(2) PCT).

-The problem to be solved by the present invention may therefore be regarded as a method to compensate for movement of the object.

-The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT).

-Claims 2-10 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

The invention is industrially applicable.

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	PCT/F12005/000038
ox No. VIII Certain observations on the international application	
he following observations on the clarity of the claims, description, and drawings or o upported by the description, are made:	on the question whether the claims are fully
The word "head" is missing in claim 9, las	st line.
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	•

Form PCT/IPEA/409 (Box No. VIII) (April 2005)